

**ROBERT M. DORAZIO**  
***Research Fishery Biologist***

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**EDUCATION**

Ohio State University, B.S. (major in General Biology from Dept. of Biology, College of Arts and Sciences), 1979  
University of Michigan, Ph.D. (major in Oceanography from Dept. of Atmospheric and Oceanic Science, College of Engineering), 1986

**AREAS OF SPECIALIZATION**

Statistical inference, mathematical modeling, population dynamics, ecology, and conservation biology. Current specific interests include the development and application of novel statistical methods and models in studies of exploited or imperiled fauna of the southeastern United States and Caribbean.

**PROFESSIONAL EXPERIENCE**

**Place:** U.S. Geological Survey, Florida Caribbean Science Center, Gainesville, Florida  
**Date:** 1994 - present  
**Position:** Research Fishery Biologist  
**Duties:** Statistical research and consultation

**Place:** U.S. Fish and Wildlife Service, National Fisheries Research Center, Leetown, West Virginia  
**Date:** 1987 - 1994  
**Position:** Research Fishery Biologist  
**Duties:** Statistical research and consultation

**PROFESSIONAL ACTIVITIES AND MEMBERSHIPS**

Committees:

Striped Bass Stock Assessment Subcommittee, Atlantic States Marine Fisheries Commission, 1987 - 1993  
Striped Bass Stocking Technical Advisory Committee, Atlantic States Marine Fisheries Commission, 1987 - 1993  
Striped Bass Technical Committee (also known as Striped Bass Scientific and Statistical Committee) (member), Atlantic States Marine Fisheries Commission, 1987 - 1993  
Editorial Board, Transactions of the American Fisheries Society, American Fisheries Society, 1992 - 1994  
Scientific and Statistical Committee, South Atlantic Fishery Management Council, 1995 - present  
Research Grade Evaluation Panel, U.S. Geological Survey, 1997, 2001  
Steering Committee, National Program Review, Fisheries and Aquatic Resources Program, Biological Resources Division, U.S. Geological Survey, 1998  
Review Panel, Review of ICCAT Stock Assessment and Management Recommendations for west Atlantic Bluefin Tuna, Requested by Science Advisor to Secretary of the U.S. Department of Interior, 1999

Memberships:

American Statistical Association  
International Biometric Society

**SELECTED PUBLICATIONS**

- Dorazio, R.M.**, and P.J. Rago. 1991. Evaluation of a mark-recapture method for estimating mortality and migration rates of stratified populations. *Canadian Journal of Fisheries and Aquatic Sciences* 48: 254-260.
- Dorazio, R.M.** 1993. Prerelease stratification in tag-recovery models with time dependence. *Canadian Journal of Fisheries and Aquatic Sciences* 50: 535-541.
- Dorazio, R.M.**, K.A. Hattala, C.B. McCollough, and J.E. Skjveland. 1994. Tag recovery estimates of migration of striped bass from spawning areas of the Chesapeake Bay. *Transactions of the American Fisheries Society* 123: 950-963.
- Dorazio, R.M.** 1995. Mortality estimates of striped bass caught in Albemarle Sound and Roanoke River, North Carolina. *North American Journal of Fisheries Management* 15: 290-299.
- Dorazio, R.M.** 1997. Modelling heterogeneity in the recoveries of marked animal populations with covariates of individual animals, groups of animals, or recovery time. *Environmental and Ecological Statistics* 4:235-246.
- Walsh, S.J., D.C. Haney, C.M. Timmerman, and **R.M. Dorazio**. 1998. Physiological tolerances of juvenile robust redhorse, *Moxostoma robustum*: conservation implications for an imperiled species. *Environmental Biology of Fishes* 51:429-444.
- Dorazio, R.M.** 1999. Design-based and model-based inference in surveys of freshwater mollusks. *Journal of the North American Benthological Society* 18:118-131. [<PDF Document>](#)
- Fabrizio, M.C., **R.M. Dorazio**, and S.T. Schram. 2001. Dynamics of individual growth in a recovering population of lake trout (*Salvelinus namaycush*). *Canadian Journal of Fisheries and Aquatic Sciences* 58: 262-272. [<PDF Document>](#)
- Dorazio, R. M.**, and F. A. Johnson. 2003. Bayesian inference and decision theory – a framework for decision making in natural resource management. *Ecological Applications* 13:556-563. [<PDF Document>](#)
- Dorazio, R.M.**, and J. A. Royle. 2003. Mixture models for estimating the size of a closed population when capture rates vary among individuals. *Biometrics* 59:351-364. [<PDF Document>](#)